

FIG. 1

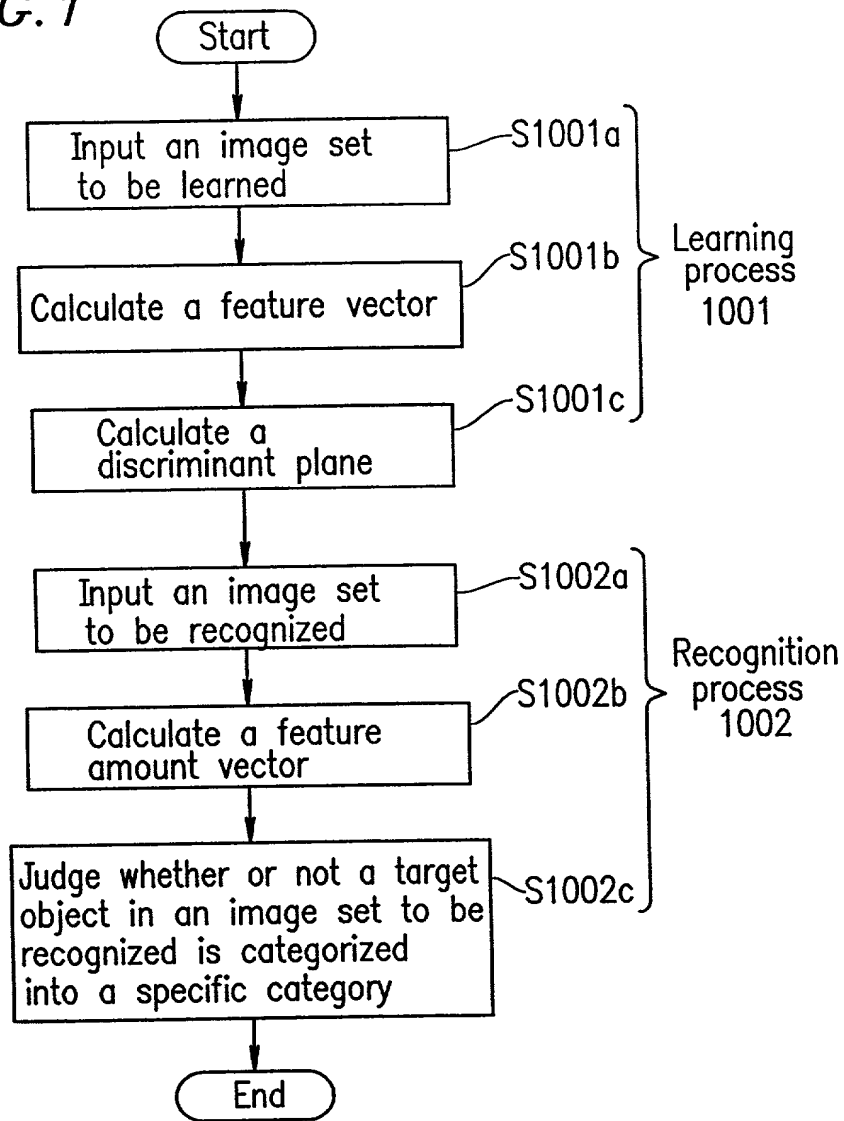


FIG. 2A

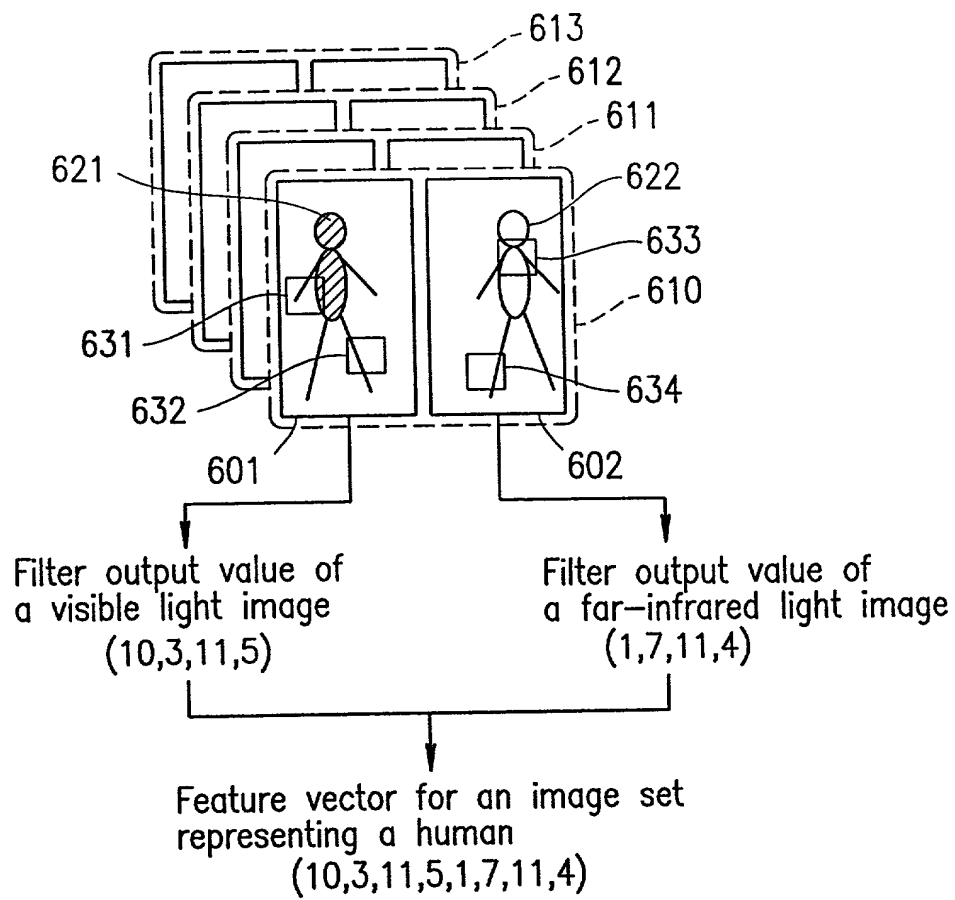
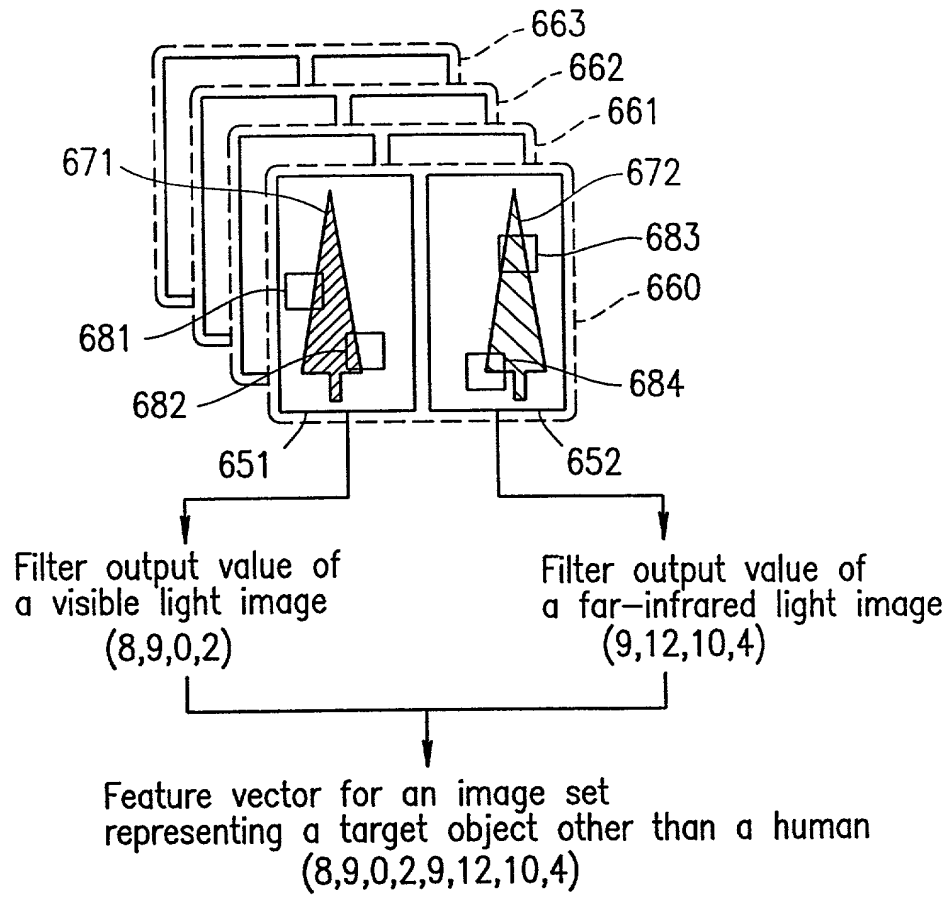
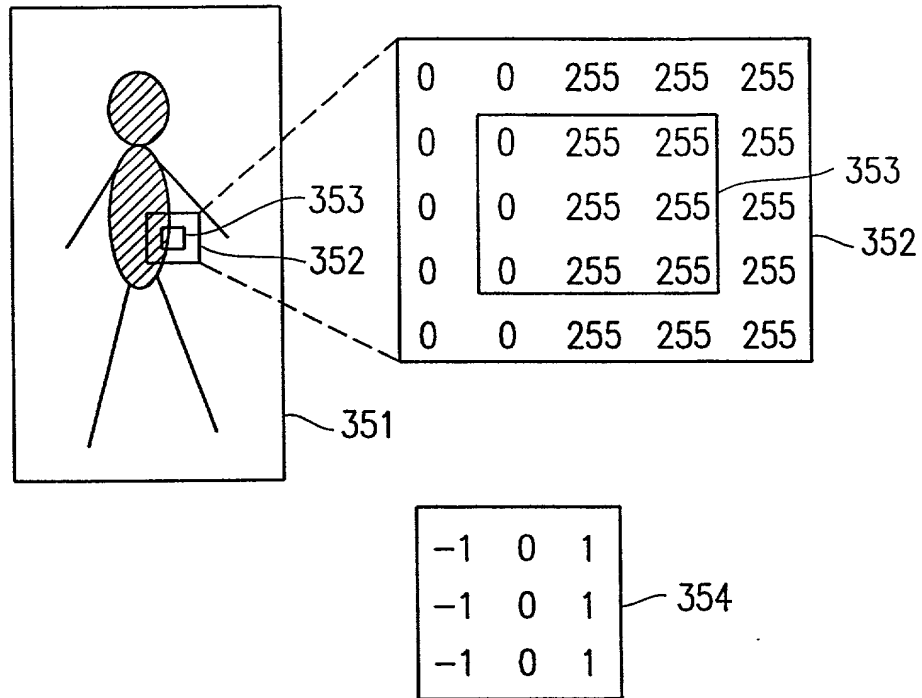


FIG. 2B



**FIG. 3**

$$\begin{aligned} \text{Filter output value} &= (-1) \cdot 0 + (-1) \cdot 0 + (-1) \cdot 0 + 0 \cdot 255 + 0 \cdot 255 + 0 \cdot 255 \\ &\quad + 1 \cdot 255 + 1 \cdot 255 + 1 \cdot 255 = 765 \end{aligned}$$

FIG. 4

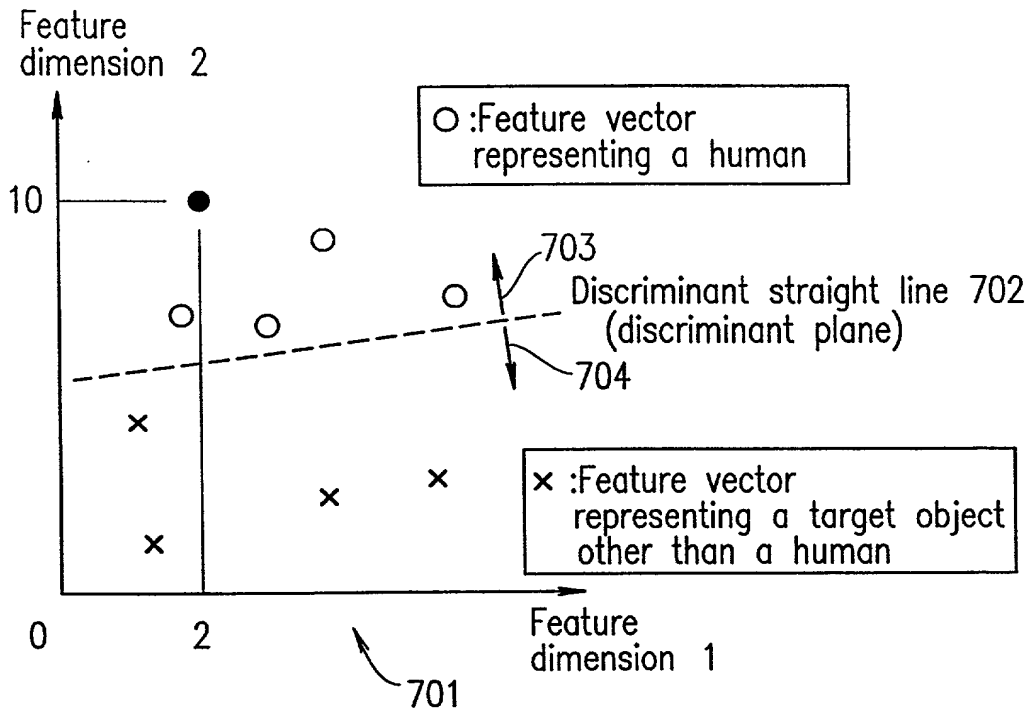
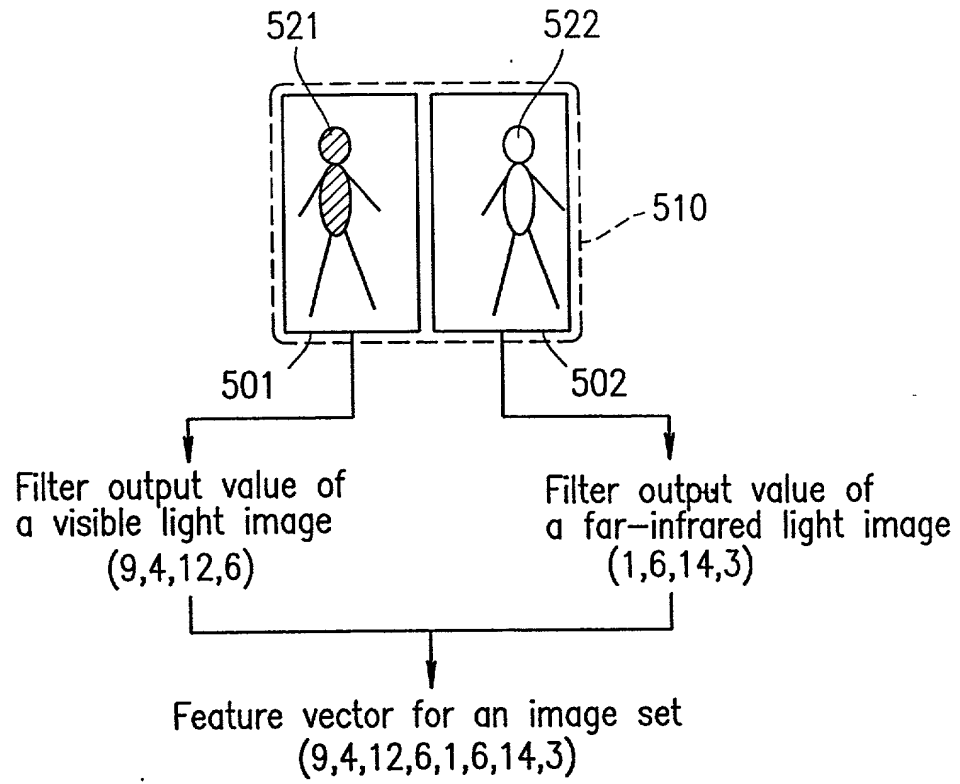
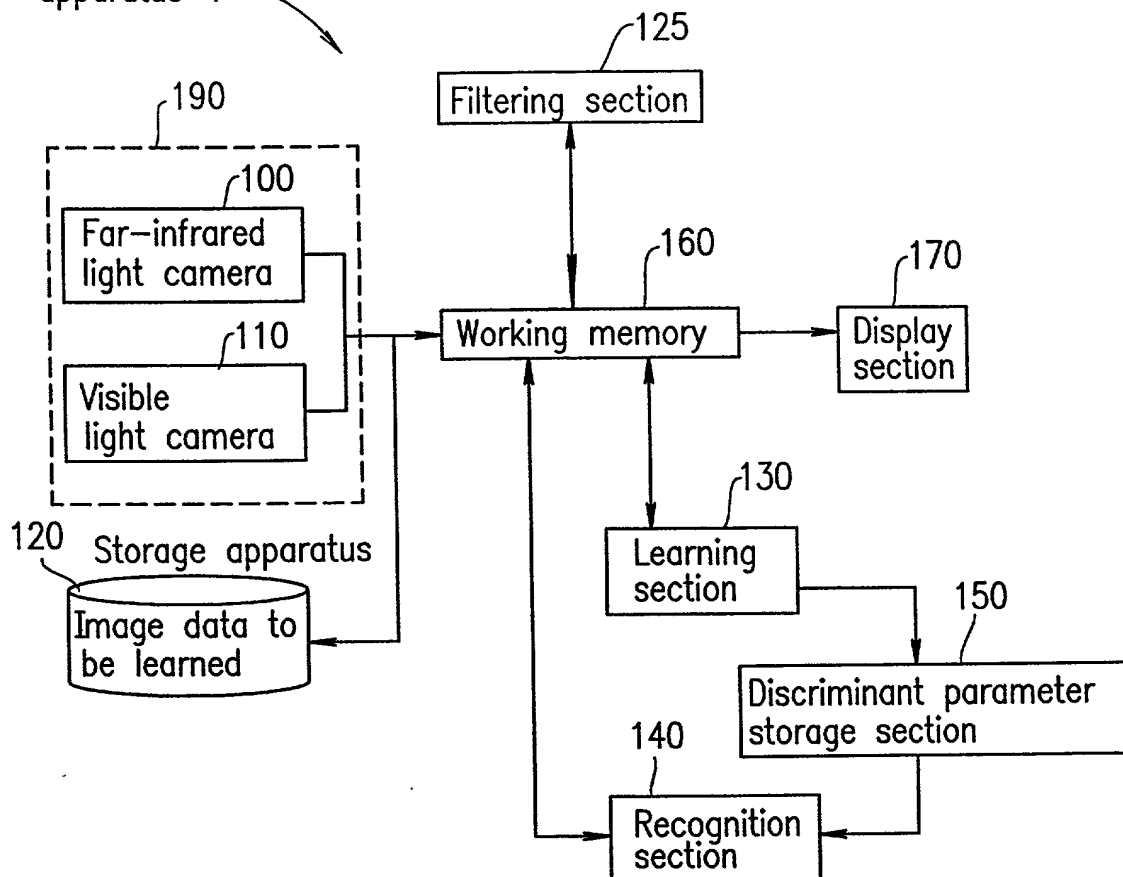
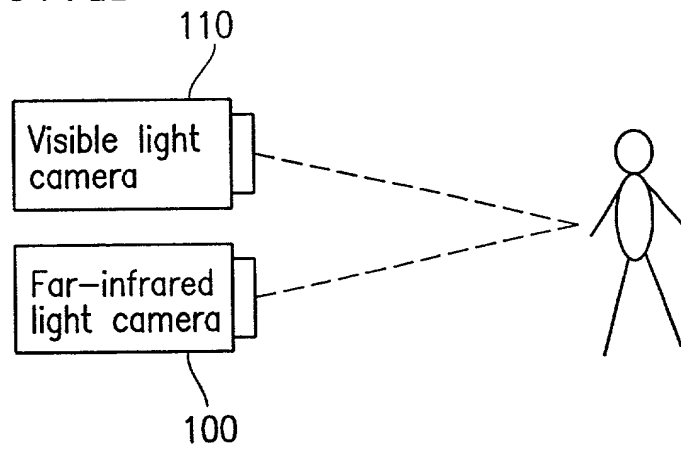
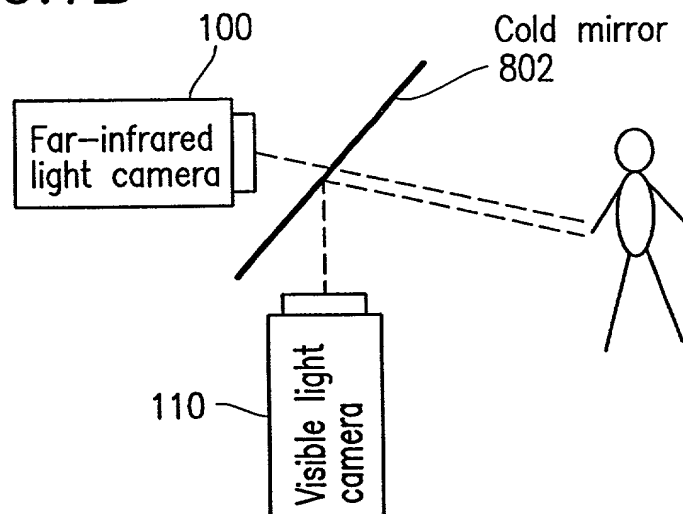
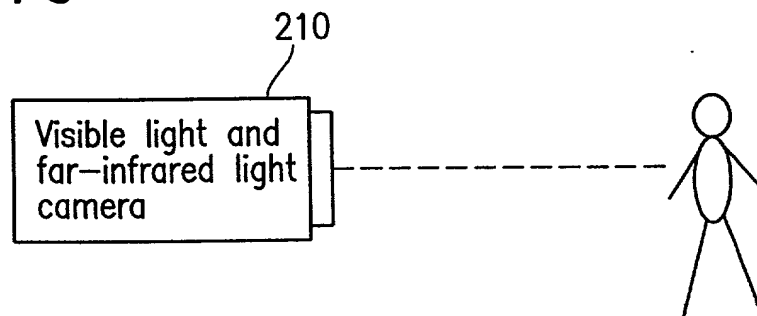


FIG. 5



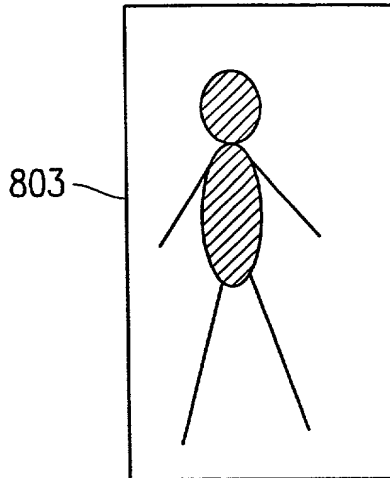
**FIG. 6**Object recognition  
apparatus 1

*FIG. 7A**FIG. 7B**FIG. 7C*



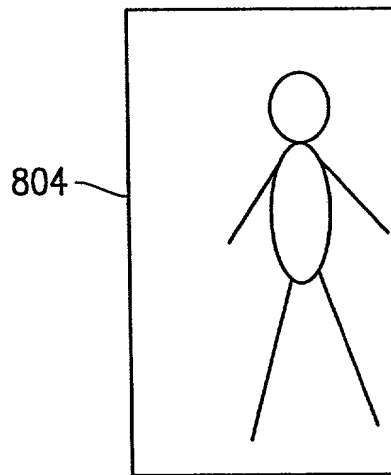
**FIG. 8A**

Visible light image



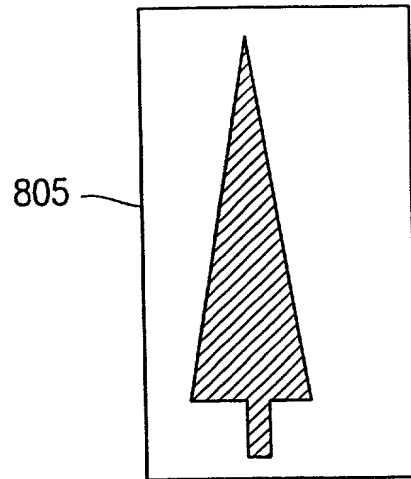
**FIG. 8B**

Far-infrared light image



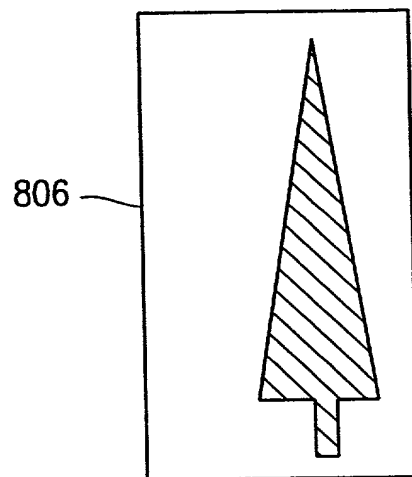
**FIG. 9A**

Visible light image

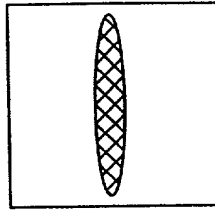


**FIG. 9B**

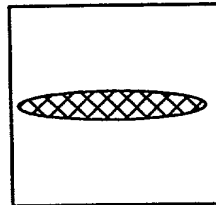
Far-infrared light image



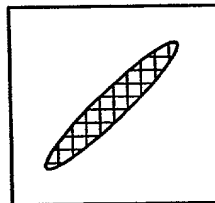
*FIG. 10A*



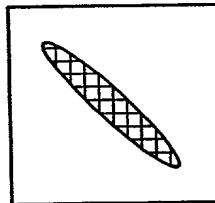
*FIG. 10B*



*FIG. 10C*

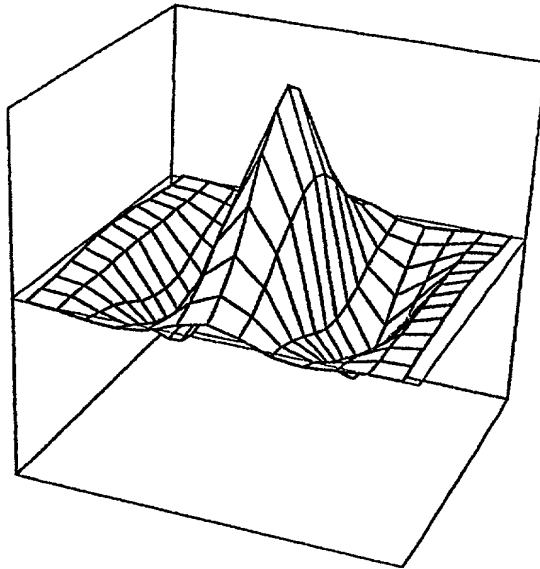


*FIG. 10D*

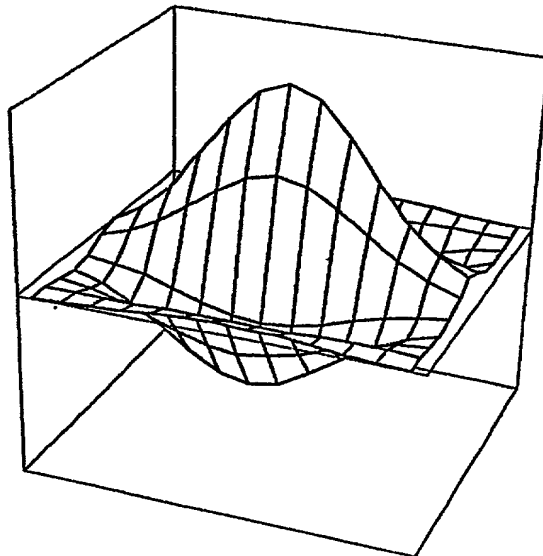


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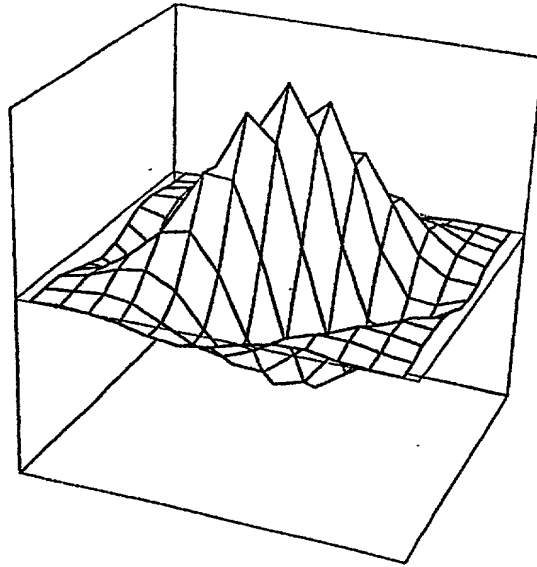
*FIG. 11A*



*FIG. 11B*



*FIG. 11C*



*FIG. 11D*

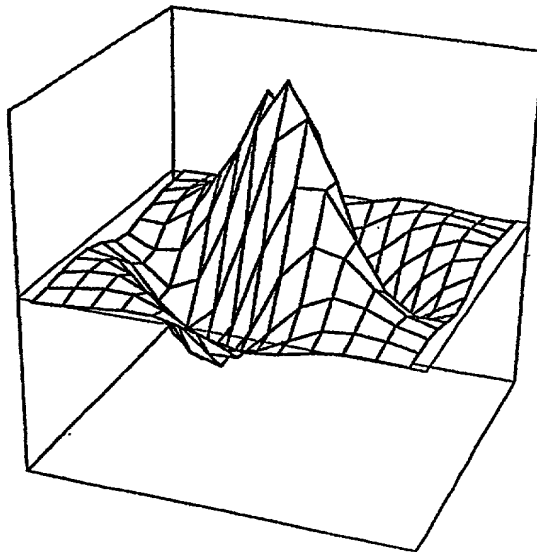
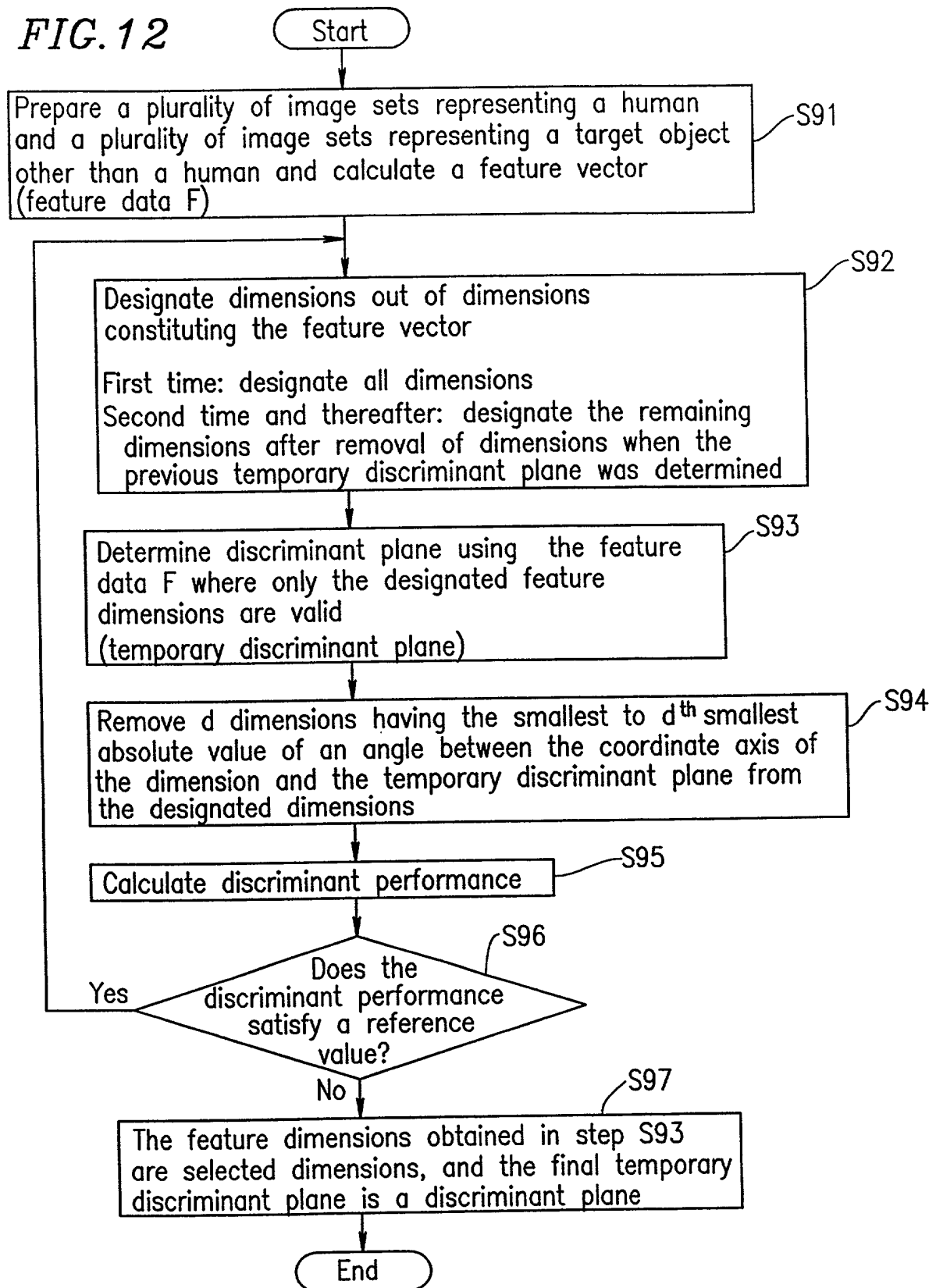
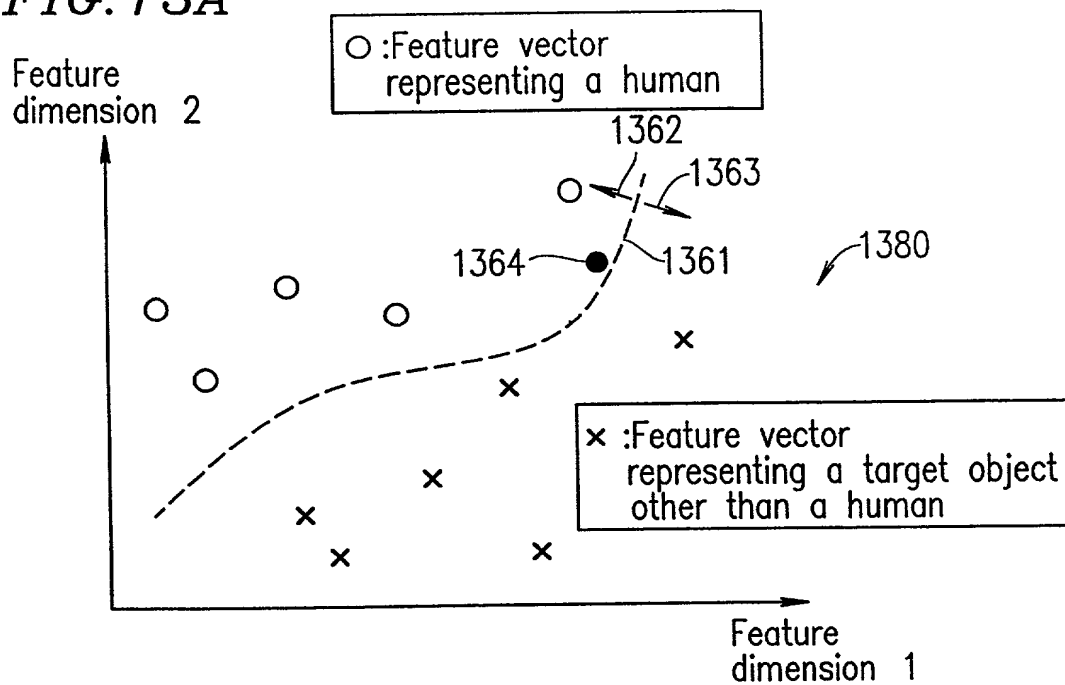


FIG. 12



*FIG. 13A*



**FIG. 13B**

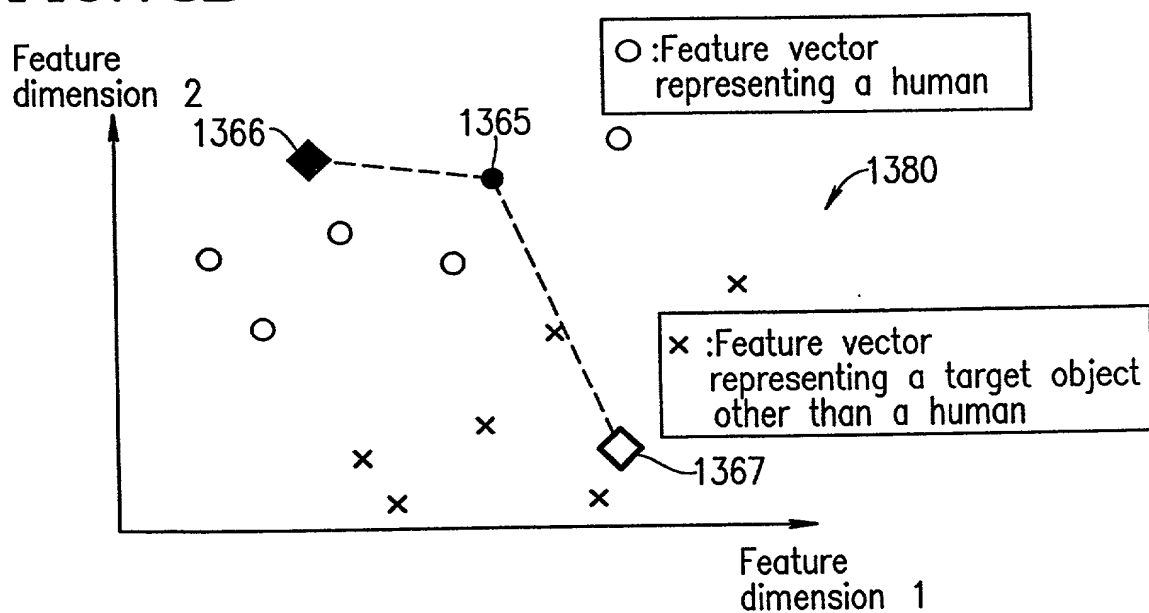
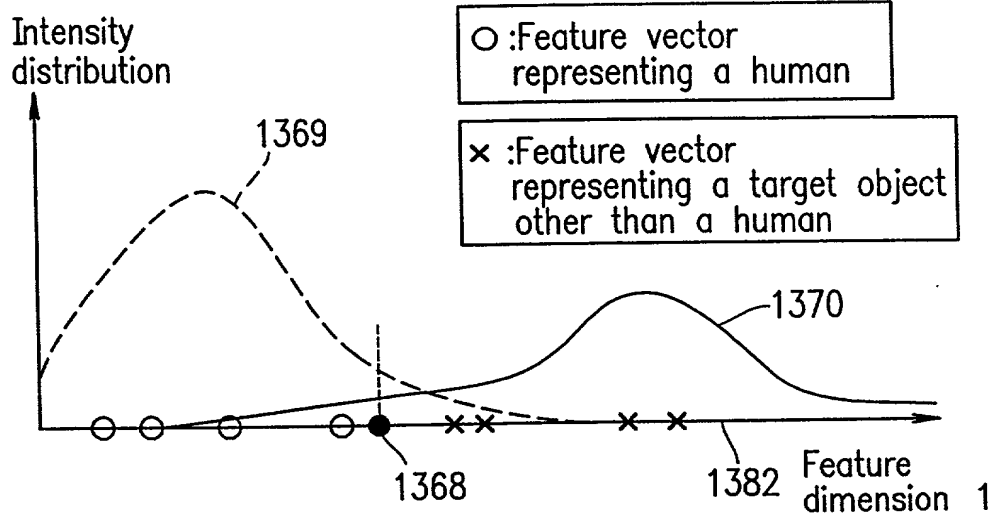
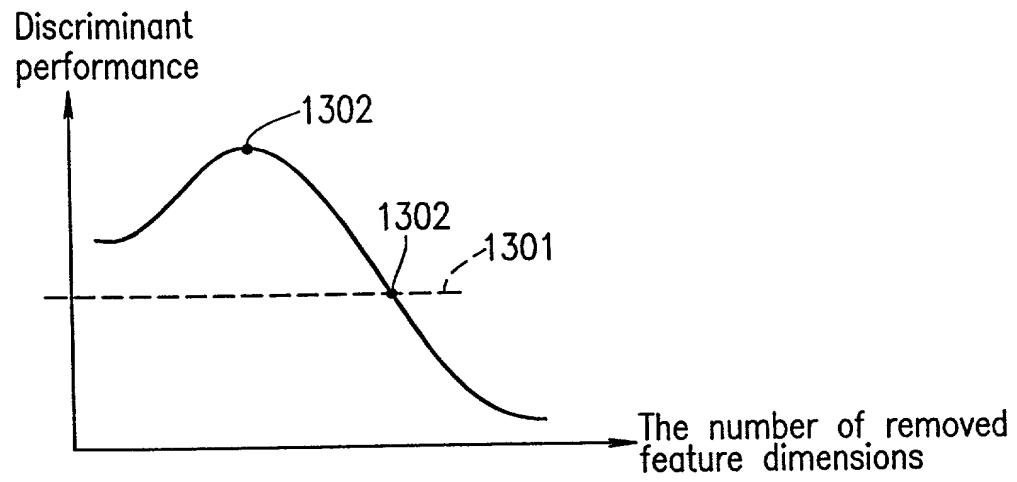
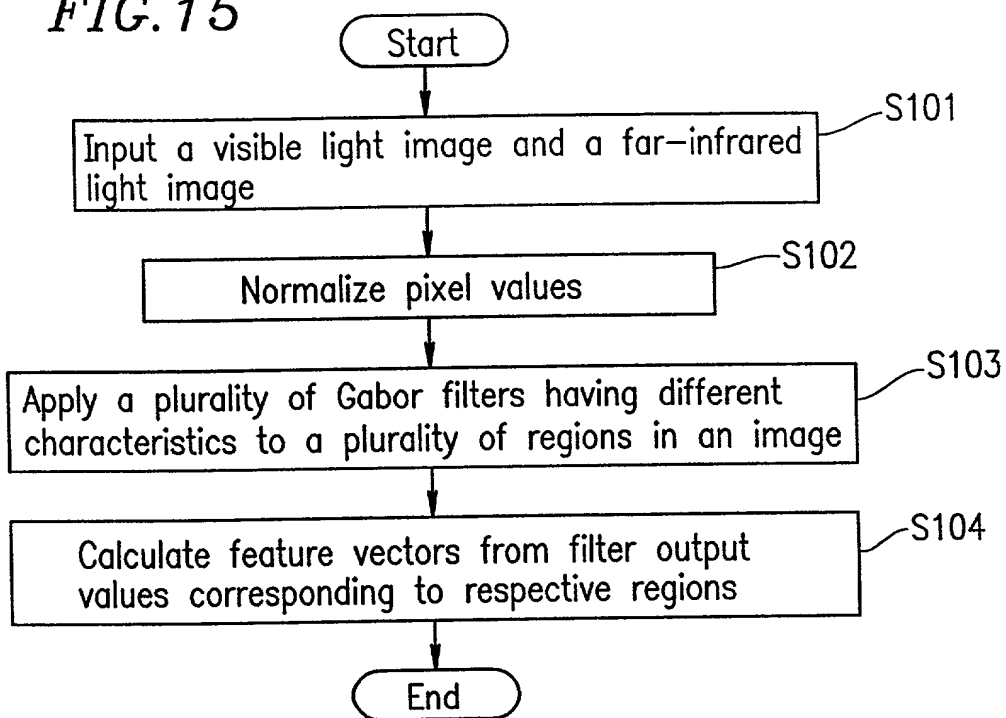


FIG. 13C

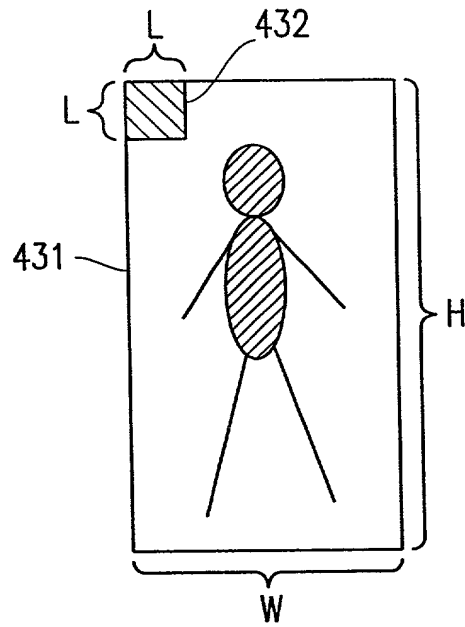


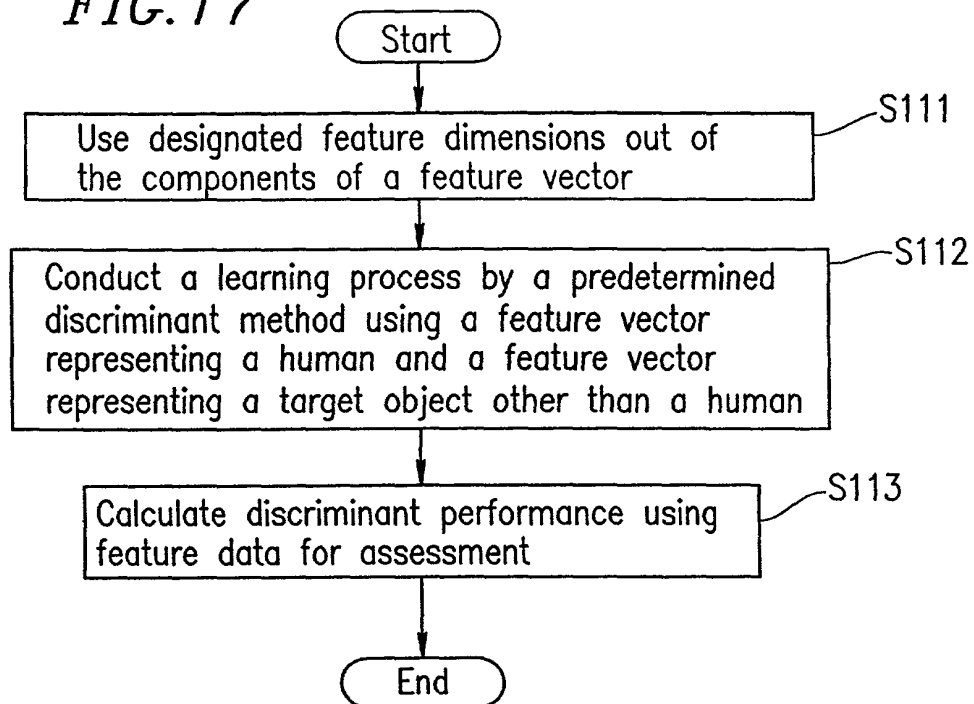


*FIG. 14*

*FIG. 15*

**FIG. 16**



*FIG. 17*

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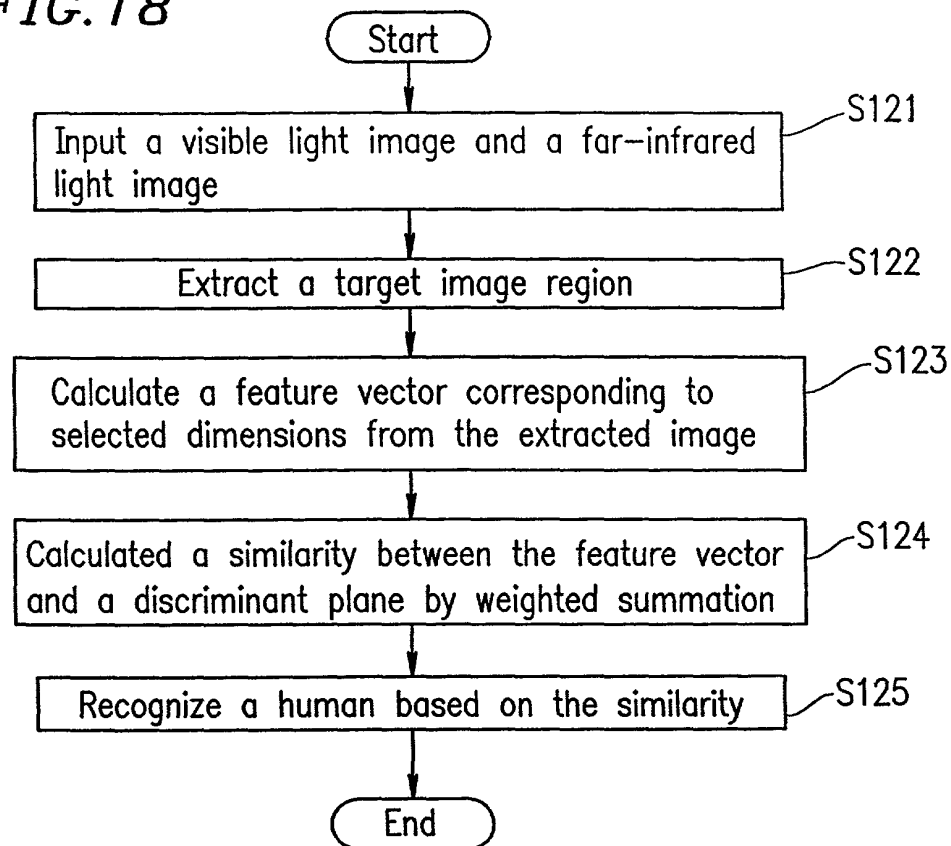
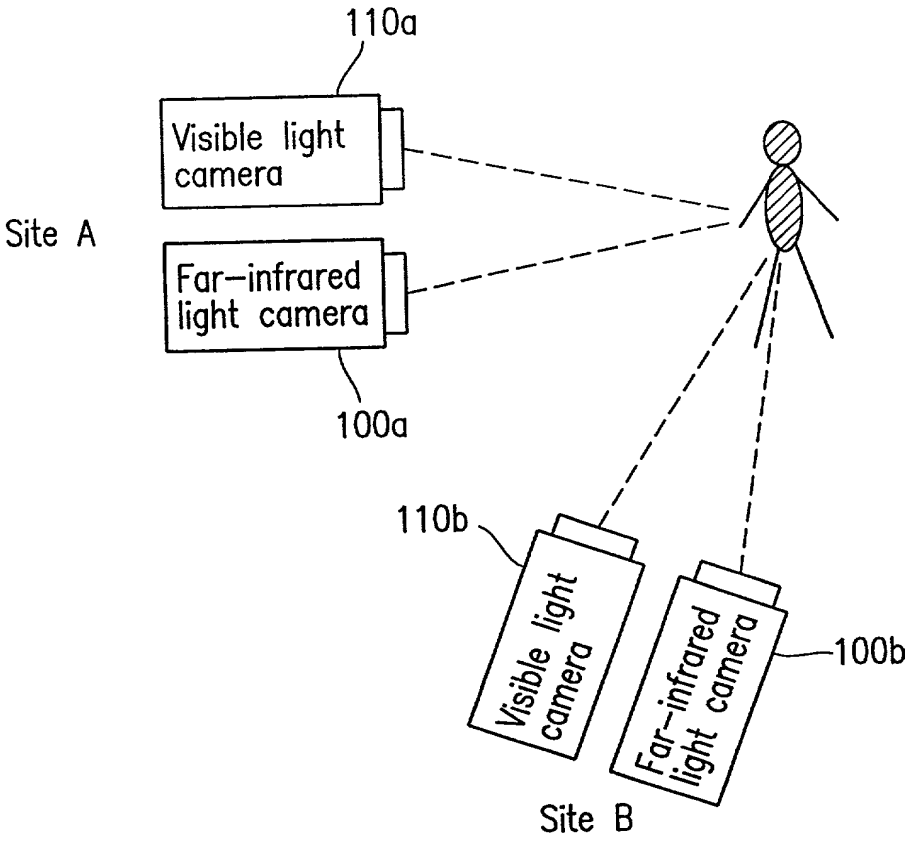
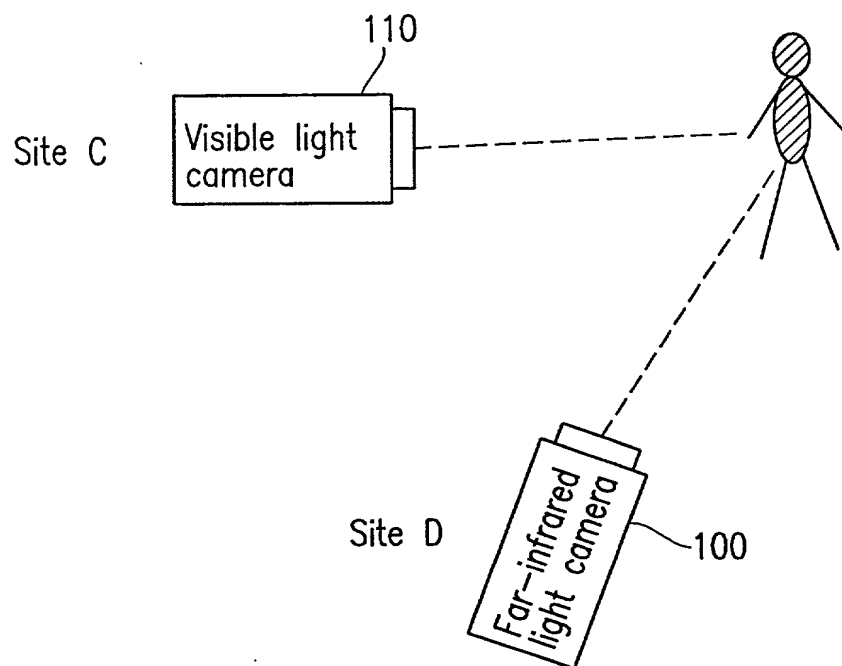
*FIG. 18*

FIG. 19



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**FIG. 20**

FOOTPRINT FOR